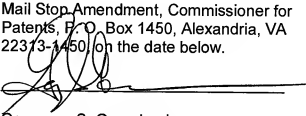


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ernest C. Chen et al. : I hereby certify that this correspondence is
: being electronically filed with the United
: States Patent and Trademark Office
Serial No.: 10/519,322 : addressed to:
Filing Date: 12-23-2004 :
For: IMPROVING HIERARCHICAL : Mail Stop Amendment, Commissioner for
8 PSK PERFORMANCE : Patents, P. O. Box 1450, Alexandria, VA
: 22313-1450, on the date below.
: 
: Georgann S. Grunebach
: Typed or printed name of person signing certificate
Group Art Unit: 2611 :
Examiner: ANH, Sam K. : Date: July 30, 2007

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97(b)(3)

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. It is respectfully requested that the references be considered and made of record in the application identified above.

This statement should be considered because it is being submitted before the mailing of a first Office action on the merits under 37 C.F.R. §1.97(b)(3). Accordingly, it is submitted that no fee is due in this matter.

However, if it is determined that any appropriate fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California.

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

By: 

Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.
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July 30, 2007

Substitute for form PTO/SB/08A		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/519,322
		Filing Date	December 23, 2004
		First Named Inventor	Ernest Chen
		Art Unit	2611
		Examiner Name	AHN, Sam K.
Date:	July 30, 2007		
Sheet 1 of 1	Attorney Docket Number	PD-202109	

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Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,285,474	02-1994	Chow et al.	
		US-6,002,713	12-1999	Goldstein et al.	
		US-6,078,645	06-2000	Cai et al.	
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Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2002/0009141	01-2002	Yamaguchi et al.	
		US-2002/0186761	12-2002	Corbaton et al.	
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		EP 0115218	08-1984	Mitsubishi Petrochemical Co.	
		EP 1011245	06-2000	Matsushita Electric Ind. Co.	
		EP 1065854	01-2001	Tandberg Television ASA	
		WO 99/23718	05-1999	Motorola Inc.	
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		KR 2001 0019997 (English abstract included)	03-2001	Hynix Semiconductor Inc.	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.